## The Scientific American Supplement. Index for Vol. 21.

## JANUARY-JUNE, 1886.

The \* Indicates that the Article is Illustrated by Engravings.

A	Buildings, concrete	Cupola, Schumann-Gruson*8471 Currant, essence of8451	Engineering, mechanical8344	Grafting-wax
Accident, singular8452	Bung for wines on tap #8538 Burner, gas, Auer's #8648 Burner, hydrocarburet #8879	Current, electric, induction *8541	Engravings, examining	Guadalupe, City of
Acid, acetic, note on	Burner, hydrocarburet	Current of magnets#8384 Currents, earth	Envelopes, stamped	Gun carriage, hydraulic
Acid, carbonic, vs. fires	Burner, gas, Westphal's #8727 Butter and eleomargarine	Currents, earth	Epidemic, Plymouth8340 Epeira diadema*8508	Gun, shot, Spencer #8522
		Curves, drawing#8572, #8580	Essences, factitious	Gyro-pulseur, the #8588
Laid milphurie, purification 8538		Curves, drawing #8465, #8538 Cyanogen, combustion of	Eurhodines, the	н
Acid, nitric, preparation	Cables, hoisting	Cylinders, iron, casting,#8588	Evaporator, universal	Hallucinations, unilateral8355
Acuse coal borer	Cables, hoisting.         .8633           Cactus, candelabra.         *8484, 8582           Cadmium and zinc, separation.         .8434		Examination Hall, London #8699 Excavator, Demange #8429	Hand-grenades, value #8536 Hat stand #8378
Acception of water	Cadmium, separation 8015		Exhauster, gas. #8727 Exploders and cartridges. #8300	Health Association, American, 8340, 8355
		Dam, Quaker Bridge	Explosion, Flood Rock*8330	Health officers, outwitting 8365
Agaric, parasol	Camera, new	Deafness, operation for	Explosion of gaseous mixtures8685	Heart, motions of #8576   Heat recuperator #8598   Heat, underground, use 8502   Heirship, natural 8440
Agricultural Hall, Kensington	Capillary attraction	Defense by machine-guns8569	Explosive mixtures, combustion of 8333 Extractor, dye-wood. #8616	Heirship, natural
Aigrettes Works	Car couplers	Defense by machine-guns	Extractor, dye-wood	Heirship, natural
Air, composition of	Cars, railway, Estrade's #8556	Dentistry, furnaces for#8994 Developer, Beach's8644	P	Henry, Prof. Joseph#8733
Air locks, construction8698 Air, liquefying	Cars, steam	Dew 8460 Diaphragms, permeability 8609 Diatomite deposits 8608 Dietitic delusions 8612	Fabrica finishing #9800	Herat
Air motor, Lenoir's	Carbuncle, treatment	Diatomite deposits8698	Fabrics, finishing	High-speed traction#8446
Acids, action of, on metals8701 Algre, calcareous8710		Dietitic delusions	Face worms #8661	Hog cholera \$602
Algine	Carriages, steam *8631 Cartridges and exploders *8330	Dirt, crease. #8561 Disease, bacteria of. #8706 Disease, evolution of 8497	Face worms. #8661 Farm house, an English. #8364	Hoisting cables
Alkaloids, cinchons	Cartridges and exploders #880	Discharges, disruptive	Farm house, Japanese	Holford Hall. #8431
Alkaloids, identification*8702 Alphabet, one-hand*8468	Casemate, armor plate#8471 Casting iron cylinders#8538	Discharges, disruptive. Switch of the control of the control of the care shall bisinfection of cattle cares. Said Disinfection of severes. Solid Docks, Tilbury 4663 Dogs, lap. 48676 Dogs of London. 48418 Dogs of London. 48418	Farm house, Japanese         #8974           Farm, vaccine, a model         5578           Fats, cholesterin         8529           Fehling's liquor as a reagent         8726	Home, Sir Everard#8640
Alumina, hydochlorite	Cast iron work	Docks, Tilbury	Ferment, an acetic	Hospital, Believue, operations8417
		Dogs, lap#8676	Ferment, an acetic	House at St. George's Hills #8365
Amateur mechanics. #8351 Americans, French view of	Caverns, Luray8033	Dough basket	Fibers, experiments with*8465	House, haif-timbered#8431
Ammonium thiosulphate8701		Dough basket #8429 Drainage in Illinois #8390 Drainage system, Boston #8399	Fiber, cocon-nut. *8465 Fibers, experiments with. *8465 Filter, Wackernie. *8465 Fire. 8403, *8424	House near Cardiff
Anatomist's ode8694	Celestial body, fall of	Draining for plantations	Fire balls, imitation	House, suburban, design#8499
Anatomist's ode	Cedron seed.   8639   Celestial body, fall of   8158   Cell, animal, motions.   48630   Cells, lymph   48707   Cellulose formed by a ferment   8701   8707	Draining for plantations	Fire balls, imitation \$8565 Fire brick, manufacture \$569 Fire, carbonic acid vs. 8738	Honey, oriental locality for \$32 Hospital, Bellevue, operations \$417 House at 8t. George's Hills. \$686 House, farm. English. \$686 House, half-timbered. \$4831 Houses, half-timbered. \$4831 Houses paperese. \$679 House, suburban, design. \$689 House, suburban, design. \$689 Hummel monument. \$686 Huxley, Prof., address of. \$420 Hyacinths in Holland. \$709 Hydraulic buffer. \$608
Annatto8482 Anthropometric description#8389	Cellulose formed by a ferment8701 Cement, concrete	Drinking, dangers of8650	Fire damp apparatus #8426	Hyacinths in Holland
Anti-induction apparatus%8627	Cement, paving	Drinking, dangers of . 8850 Drinmer, best kind of. 8401 Dry rot. 8566 Drying box, photo. \$860 Dwarfs, African. \$8605 Dwarfs, Drying box \$8600	Fire damp apparatus. #8426 Fire-grenade, the . 5536 Fireplace and mantel, oak. #8334 Fireproof individuals. #8436, #8515	Hydraulic machinery for slipway #8521
Anti-induction apparatus. #8627 Anti-septic pot. #8714 Angelent Combols	Cerebral surpery 8061	Drying box, photo*8644 Duckworth, Dr. Dyce. *8640		Hydraulic dam
Aperiont, Combe's 8518 Apple, essence of 8451 Apricot, essence of 8451	Cerebral surgery 8061 Cereus giganteus 8484	Dwarfs, African*8645	Fires, coal, noiseless8497	Hydrocarburets, heating by #8379
Arch, equilateral	Chairs, testing*8573 Chair, cheap*8378		Fires, coal, noiseless. 8497 Firing apparatus, electric. #8530 Fish, electric. #8534 Fish injured by sewage. 8713	Hydrogen gas apparatus #8798
Architecture, suggestion in #8411	Chair, cheap #8378 Chemical compounds, form #8512 Chemical elements of plants 8371	Dyeing aniline black	Fish injured by sewage8713	Hydrogen, peroxide of 8701 Hydrophobia and cedron seed 8630 Hydrophobia, Pasteur and 8666 Hygiene of old age 8707
Architects, Naval Institution 8730 Arcometer, electric		Dyes, alizarine	Flax, experiments with #8465	Hydrophobia, Pasteur and
Arena, nautical		Dynamo machines, efficiency of #8703	Flint containing water	Hygiene of old age8707
	Chemistry, thermo	Dynamometer, a new	Flue gases8026	Hygrometer, Sire's \$850 Hyperbola, the \$865
Asphaltum, Uintahite	Chicago foundations*8410 Chimney-pieces, two*8363	R	Fight torpedo, Sims   Severage   Sept	
Astronomer, ameteur	Chlorination of gold ores8700	Would and the seconds of the	Force of waves, utilization#8556 Forces, methods of balancing#8472,	Tradicator improved Mour
Atoms and molecules	Cholera, nog	Earth and the comets	#8488	Indicator, improved
Attraction, capillary #8570	Cholera, spread of	Earth's center exploration #8713	Forestry exhibit at Vienna	Indigestion 8765 Induction in spectroscopy 8984 Industries, chemical 8723 Interrupter, Ballard 8845 Invention of machines 8863
Attraction, capillary	Cholesterin fats	Eccentric, novel	Forgings, heavy, manipulation #830 Fortification, iron in #8471, #8490	Interrupter, Ballard
Autographic tests. %8584 Az making. %8497	Cinchona alkaloids8451	Education in United States	Foundations, Chicago	Invention, new, Bell's8737
R	Clicada, reason in \$8518 Clicada, reason in \$8518 Clirus, the \$451 Clirus, the \$457 Cities of Chalden. \$879 Cities of d., of New World \$439	Education in United States	Foundations, subaqueous8731 Foundry, statue#8505	Invention, new, Bell's 8737 Iron, cast, floating \$858 Iron cylinders, casting \$858 Iron in fortification \$847, \$8490 Iron pillar in the Punjab. 8388
Bacilli	Cities, old, of New World	Egg, Columbus' #8688		Iron in fortification*8471, #8490
Dacilii	Clocks, novelty in8401	Eight-hour question8650	Froebel method #8497 Frog's heart in motion #8576 Fruits and seeds as trimmings #8469 Fuel, calorific power 8398	
Balancing engines for	Cloth, Cork	Electric areometer#8416	Fruits and seeds as trimmings *8469	Ironciad Naniwa
Ball, Robert S #8508	Clothing, fire-proof	was a second of the second of	Fuel nama	Irvine, A. H
Balancing engines	Clouds, forms and neights*8078	Electric current, induction **8641 Electric fish ** *8534 Electric generators, Deprea' **8844 Electric generator, Kendall'* ** *8416 Electric imp, burn by	Fuel, natural gas	J
Banyan in a bowl	Clouds, height of	Electric generators, Deprez'#8384	Fumes, deposition of 8571	Tomin Tules #65%0
Bark bread 8.597 Barks, crystals of 88702 Barometer, new form 88501 Barometer, the 8501	Coal elevator #8478	Electric lamp, burn by8514	Fungi in timber         8596           Fungus, edible, common         #8857           Furnace, retort, new         #8727           Furnaces for dentistry         #8894	Jamin, Jules
Barometer, new form. #8651 Barometer, the	Coal fires, noiseless	Electric lighting of theater #8434, #8606	Furnace, retort, new	Jugglers #8770
Basket, dough #8429 Base-reliefs from Kabah #8441 Batteries, storage, bi-metallic #807 Battery, storage, bi-metallic #807	Coal gas, enrichment	Electric machine, Wimshurst #8606	Furniture, meapensivewood	K
Batteries, storage, bi-metallic8367	Coal gas, explosive mixtures833 Coal gas, heat value8518		Fusion by electricity*8593	Keir, Mather's #8611
Rettory Sterror Hgut Words	Coast detense, cupon for	Electric spark, imitation*8563 Electric supper8434	G	Kensington Court#8700
Bed-plates. \$855 Bell's new invention 8737 Bell's new invention 8737 Bellevue Hospital operations 8417	Cochineal industry	Electric toy	Gait of nervous people	Kephyr
Believue Hospital operations 8417	Cocoa-nut fiber factory*8405 Cod eggs, hatching*8422	Electric transmission of power*8384	Games, two*8406 Gaultheria nummulareides*8389	Kobelkoff, the truncate artist#8531
				L
Bicycle, what can be done on		Electrical firing apparatus*8390	Garden at Falmouth"	Labels for stock bottles8506
Bleaching process, improved*8611	Coloring matters of wine8334 Coloring matters, new8694	Electrical firing apparatus. *8390 Electrical torpedo, Sims. 8377 Electricity, effects, reproduced. *8649	Gas, coal, enrichment8549	Labor, prison835
Blind, sight for	Colors, poisonous	Electricity, development#8479, 8529		Labor, prison
Boat, torpedo, aboard a #8679	Comets, earth and the 8581	Electricity, development *8479, 8520 Electricity, fusion *8593 Electricity in pharmacy *8543	Gas engine, Benier's	Lamp, electric burn by 8514
Boat, torpedo, Falke	Comet's tails, imitation#8565	Electricity of contrary names *8416	Gas holders, large*8007	Lamp-post, hinged #8573
Boats, torpedo	Colors poisonous 5716 Comet, Beila's #8516 Comets, earth and the 881 Comet's tails, imitation #850 Compans, mariner's #8407, #8250 Compounds, aromatic 5724 Compressed air power schemes #8475	Electricity of contrary names. **8416 Electricity, reproducing. **8706 Electrometer, absolute. **8706	Gas holders, large         *8607           Gas, hydrogen, apparatus         *8728           Gas fuel, natural         .8407           Gas generators, ammonium in         .8701	Ladies, steel-making
Bleaching process, improved. #8611 Bleaching process, new .8464 Blind, ight for . #8514 Blowpipe, Pavier's . #8579 Boat, torpedo, aboard a . #8679 Boat, torpedo, aboard a . #8679 Boat, torpedo, board a . #8679 Boat, torpedo, boat aboard a . #8680 Boat, torpedo, Goubet's . #8634 Boat, torpedo, Goubet's . #8636 Boat, torpedo, Goubet's . #86406 Boat, torpedo . #8650 Boat, Sorpedo, Goubet's . #8680 Boat, Sorpedo, Boat,	Compressed air power schemes #8475	Elements, new	Gas generators, ammonium in8701	Lantern sketcher, the#8508
Boilers, steam. 8510 Bonds, hollow, for walls #8599 Bookdealer's Exchange #863 Boring, a deen gest	Concrete, lowering under water #8487 Condensation of fumes #8543 Condenser, surface #8632	Emerald, artificial8507	Gas manufacture#8727	Lathe, roll turning*8732
Bookdealer's Exchange#8463	Condensation of rumes	Emery wheels,	Gas, natural8008	Leather rendered pliable8424
Boring machines for coal \$8403	Conundrum, Job's	Electrometer, absolute   #87728     Elements, new   8722     Elevator, coal.   #8478     Emerald, artificial   88678     Emery testing   3863     Emery theses   #8666     Emulsion making   8125     Emulsion press   #8643     Emulsions, preparing   #8642     Engine Rennison's   #8414     Engine Rennison's   #8414	Gas jamp, Wenham         \$804           Gas imp, Wenham         \$804           Gas motor, Lenoir's         \$857           Gas, natural         \$907           Gas, natural, evology of         \$87           Gas, natural, Pittsburg         \$52           Gas, natural, transportation         \$88	Landern saccener, the #8058 Lap dogs. Lathe, roll turning #8738 Lead, lquid, pump for \$824 Lead, lquid, pump for \$824 Leather rendered pilable #873, \$603, \$803, Leather rendered pilable \$874, \$603, \$803, \$803, Leather sendered pilable \$874, \$603, \$803, \$803, Leather sendered pilable \$874, \$603, \$803, \$803, Leather sendered pilable \$874, \$803, \$803, \$803, \$803, Leather sendered pilable \$874, \$803, \$8
Box-pailing machine	Copper, separation	Emulsions, preparing #8642	Gas, natural, transportation8563	Lemon culture, Sicily8464
Bookacealer's Exchange	Cork cloth	Engine, Benmson's#8414 Engine cranks and shafts#8719	Gas, water ** Gas well, Findiay, Ohio. ** Gase well, Findiay, Ohio. ** Gases flue ** Gases in meteorites ** Gases liquefaction of ** Gases liquefa	Lernon cunture, Serify
Bread, bark	Cork cloth	Engine, Friedrich#8008	Gases, flue	Light, magnesium*860
Bread, barel color on.   8536	Correspondence by pigeons weaks Corundum, testing. 8883 Cotton goods, dyeing. 8006 Cotton tissues, finishing. 8009 Couplers, car. 8620 Court House, Neuilly 48622 Crank-shafts, repair of. 48404	Engine, gas, Lenoir's#8007	Gases, liquefaction of	Light, polarized
Brickwork, strain on	Couplers, car	Engine, horizontal*8563	Gaseous mixtures, explosive 8684	Light, Wenham#8404
Bridge, captiles	Court House, Neuilly #8622	Engine, petroleum#8535	Generator, electric #8384	Lighting, electric
Bridge of agatized wood	Crank-shafts, repair of	Engine, Pinchbeck's	Generator, electric, Kendall's#8416	Linacre, Thomas#8366
Bridge over the Dnieper. #8487	Cranks and shafts. #8716 Cranks and shafts, marine #8719 Crane, electric #8647	Engine, Watt	Geology, physiographical8547	Lintel, stone, Yucatan*8441
Bridge at Wangton 8511 Bridge at Wangton 8502 Bridge, cantilever original 8502 Bridge, cantilever original 8502 Bridge of agatized wood 86418 Bridge, Prince's 86487 Bridge over the Dnieper 86728 Bronze casting, artistic 86503 Brufles, James 86503 Buffer, collision. 86003	Cremation	Emulsions, preparing **8942* Emrine, Bennison's **8444* Engine cranks and shafts **8719* Engine, Friedrich **8709* Engine, Friedrich **8898* Engine, gas, Benier's **8898* Engine, gas, Lenoir's **8897* Engine, horizontal **8898* Engine, berroleum **8898* Engine, petroleum **8898* Engine, princhbeck's **8414* Engine, traction, high speed **8446* Engine, watt **8998* Engines, balancing **8717* Engines, gas, explosive forces **8800* Engines, high speed **8446* Engineers, locomotive, brotherhood, 8064* Engineers, locomotive, brotherhood, 8084* Engineers of Mersey Tunnel **8850*	Gascous mixtures, explosive — 5056 Gasometer, Intize's — #8727 Generator, electric — #8084 Gens, artificial — 5047 Generator, electric Kendall's — #816 Geology, physiographical — 5047 Geyses, glant — #711 Glows, red, origin of — 5056	Linsere. Thomas. #8441 Lintel, stone, Yucatan. #8441 Liquid fuel 8440 Lithophanies 8490 Lithophanies 8490 Little Tiger coal borer. #8840
Buffer, collision. #8553 Builder's quantities #8603 Building material, eathenware as, 2504 Building materials processors	Crease dirt	Engines, high speed	Giveerine scans 8408	Locks, air, construction \$803
Building material authorises	Crease dirt         #8581           Crucibles, electric         #8593           Crystals, micro         #8702	Engineers, locomotive, brotherhood, 8684	Gold mine in Asia	Locks, air, construction 8608 Locomotive engineers, brotherhood, 8604 Locomotive, handling 8625
Building materials, processor 48301			Tributa William Children and Children and Control of Control	ACCOUNTAGE OF THE PROPERTY OF THE PARTY OF T

ocomotive, history of Sile ocomotive, rack, Abt's 9804 ocomotives, early 8825 ocomotives, early 8825 ocomotives, pole road 98025 ocomotives, p	Opium, alkaloids of	8708	Railways, street, motors	8458	Spelling, manual	Tramway motors84
ocomotive, rack, Abt's #8004	Optum poisoning Optum poisoning Optum signaling apparatus.   Orange culture, Sicily Ord, Dr. W. M.	8040	Railways, street, motors Ham, hydraulic Raspberry, essence of	# 8081	Sphinx, riddle of the	Transways, electric. #8 Transformer, Burnley's. #8 Transmitter, Dejongh's. #8
ocomotives, pole road	Orange culture. Sicily	8454	Hatchet coal borer		Spring, boiling #8711	Transmitter, Delongh's#85
ongleat	Ord, Dr. W. M *	8040	Haspberry, essence of Hatchet coal borer Heaction, chemical, views of Heagent, Fehing's liquoras Heason in the cicada Heceiver, telephone, theory of	8723	Splices   strength of   #8011     Spring   Spling   #8711     Stage secrets   #8712     Starfish   luminous   #8028, #8755     Starfish   luminous   #8028     Stars   shooting   #8028     Statue foundry a   #8026     Statue of Ramace II   #8708     Steam carriages   #8031     Steam carriages   #8031     Stran carriages   #8031     Str	Transmitter, Dejongh's 88 Transmitter, telephone, theory 88 Transmitter, telephone, theory 88 Transmitter, telephone, theory 88 Tricks with vegetables 88 Trucks, suc's 86 Tubes, metal, colling 88 Tubes, metal, colling 88 Tubes peumatic 88 Tunnel at Stockhoim 88 Tunnel, Mersey 8457, 88 Tunnel, Mersey 8457, 88 Tunnel, Severa 8446, 88 Tunnel, reaction 88 Tunnel, severa 88 Type, preservation of 88
orillari City #8430	Ordnance, gun cutton in	8048 8049	Reason in the cleads	#8518	Stars, shooting#800	Trap, thief, new
umber, fireproof8364	Orenance, gui cutton in Oren from great depths Ores, gold, chlorimation. Organ, Westminster Abbey Princehochromatic plates Or shoes, new style Oysters, medicinal Ogone unachine	8700	Receiver, telephone, theory of	8461	Statue foundry, a #8505	Tricks with vegetables*8
und, Edward #8640	Organ, Westminster Abbey	9888	Recuperator, heat	# 6586	Statue of Ramses II #8708	Turede, Suc's
Julius cents wetor	Ox shoes, new style,	8616	Remedies, effects	8530	Steam carriages#8631	Tubes, metal, coiling#8
M	Oysters, medicinal	8463	Reptiles of India	8708	Steam cars	Tubes, pneumatic85
	Ogone machine	0080	Remedies, effects	#8335	Steam cars #865 Steam engine economy. #866 Steam engine, Friedrich #866 Steam engine, horizontal #858 Steam engines, rotary. #844, #842	Tunnel, Mersey8457, #85
lachinery and education876	P		Reticule threads	#8508	Steam engine, horizontal#8583	Tunnel, Severa 8446, #8
lachinery, application	Paget Sir Tarnes	9840	Revolver Kynoch	#8458	Steam pile driver	Turret, rolled from #8
fedium, mounting, new	Painting, Pompeian	8686	Rheostat, Wheatstone's	8705	Steam plow, the 8377	Turrets, experiments with*8
lachinery, application ### achinery, soap ### achinery, soap ### agnesia, bypochlorite ### agnesia, bypochlorite ### agnesia bypochlorite ### agnesiam light ### agnetism and spectral lines ### agnetism of iron ships ### agnetism of ships ### agnetism, terrestrial ### agnetism, terrestrial ### ain, bydraulic, ### ain, bydraulic, ### ains, water, wrought iron, ### alains, water, wrought iron, ### alains, and ### alain marococci of ### alat making #### #### ##### #####################	Paget, Sir James. # Painting, Pompeian # Paints, luminous # Palace of Kabah # Palate, cleft, treatment # Pandiscope, the # Paper, to render pliable # Paradise compound, Caffall's #	8430	Residence near Cardiff Bettoule threads Retort furnace, new Bevolver, Kynoch Rheostat, Wheatstone's Rice wine, Japanese. Riddle of the Sphinx Ring, tossing the Bings, Nobill's. Roll turning lathe Room, to ventilate, a Rope power, application Rossolene Rotary engines. Royal Society soiree Ruby, artificial.	8557	Steam pile driver   34448     Steam pile driver   3478     Steam railway, German, first   3476     Steam railway, German, first   3476     Steam, transmission   3684     Steamer Irruwaddy   4847     Steaming Keir, Mather's   3818     Steaming Keir, Mather's   3818     Steaming for at Eastern   3818     Stearine in finishing   3839     Steel color on brass   356     Steel works of the United States   3888     Steel works of the United States   3888     Stereotype machine   3888     Steaming   3888	Type preservation of
agnetism and spectral lines8404	Palate, cleft, treatment	8577	Ring, tossing the	#8406	Steamer Irrawaddy #8347	Type, preservation of
lagnetism of iron ships#8725	Pandiscope, the	8008	Rings, Nobili's	. #8564 #W799	Steaming Keir, Mather's #8611	U
lagnetism, terrestrial	Parabola, the	8638	Room, to ventilate, a	8556	Stearine in finishing8690	Udometer, Palmieri's #8 Uintahite asphaltum
laguets, to find poles of#8984	Paraffine compound, Caffall's#	8391	Rope power, application	8424	Steel, Bessemer#8536	Uintahite asphaltum
lains water wrought iron. 8727	T tot M. A Class works and the control of the contr	8711	Rotary engines	#8423	Steel good, to prevent rust on. 8398	Umbrelia stand #8 Universal coal borer #8 Urethra, stricture of
falaria, micrococci of	Pavement, tar	8644	Hoyal Society soirce	8787	Steel-making ladies #8478	Urethra, stricture of
alt making8494	Pavement wood, resurfacing	9464	Ruby, artificial Rudder, supplementary Rudder, temporary Rust, protection from	8507 #8402	Stereotype machine United States8583	v
anor house, old	Peach, essence of	8451	Hudder, temporary	#8392	Storone bottom fate of '9000	
antel and fire place, oak#8334	Pear, essence of	8451	Rust, protection from	8430	Stone dressing machine #8521	Vaccine farm, model8
arcernavia paradoxa8833	Persimmon, Japanese	8406			Stone piles, Washington Ter	Valve. Baumert 487
lares, limit of breeding	Petroleum engine	8535			Stones, size of, in Masonry #8686	Valve gear, Boell*85
Salaria, métrococci of	Parlor, a villa Pavement, tar. Pavement twod, resurfacing Paving cement. Peach, ossence of Perilla, oil of. Persimmon, Japanese Persimmon, Japanese Persimmon, Jeptic of the persimmon, Japanese Phosphate unics Phosphate apparatus.	8543	Safety catch, Perillo's. Saltpeter, sources of Sanitation, marine Sanitation, marine Sanitation, water Sapphire, artificial. Saurin's ring, density Saure, solia Savory, W. S. Scales, automatic. Scrubber, gas Seas, depths of. Sea walls. Sea weds, calcareous Secrets, theater Seed sources Seed cedron Seedpan, Hraseur's. Seed trade, the Seedpan, Hraseur's. Seed trade, the Sesismograph, Fouque's Separator, metal Sewage, disposal of Sewage, sin injured by Sewage, sin injured by Sewage, genoval Sewage, reatment. Sewage works, Roston. Sewerd sinfection. Sewerd sinfection. Sewerd sinfection. Sewerd sinfection. Sewerd sinfection. Second on the sewer disinfection. Sewerd synthatic. Sewerd synthation. School house, village. Science, practical achievement. Science, progress of Shaft tubes, construction Shafts and cranks. Shafts and cranks. Shafts me, sinking. Shaets.	#8537	Stored in Mason Y and Was 2 Stored in Mason Y as 3 Stored Res Washington Ter. Sas Stones, artificial. Stones, size of, in Mason Y was Stratus, the S	Vaporizer, Favier's*8
ariner's compass#8407, #8526	Phosphorescence of marine animals.	8611	Sanitation, marine	8340	Street in Kanda Ku	Vegetables, tricks with
arking machine	Phosphorescence of marine animals.  Photographs apparatus.  Photographs winking.  Photomers, the  Physics, chemical  Pictures, translucent.  Pigeon's heart in motion  Pigeon's heart in motion  Pigeon's carrier.  Pigeon's earrier.  Pigeon	8467	Sanitation, water	8650	Street in Kanda Ku	Vehicle wheels, tests of 80
lasonry in fires	Photometer, the	5074 5501	Saturn's ring, density	8590	Strength and dexterity #8716 #8770	Vaccine farm, model
lasonry in fires	Physics, chemical	8723	Sauce, soja	8482	Structures, origin of 8421	Vessel, antiseptic#87
atter, original form8722	Pictures, translucent	3499	Savory, W.S	景8640	Subsidence, lagging 8547	Vicerage Harlow
atter, original form	Pigeons, carrier	308	Scrubber, gas	#8727	Sugar by diffusion	Villa, Schwabe
	Pile driver, Figee's	8448	Seas, depths of	#8713	Sulphur, solubility8660	Vinegar plant, the
legaloscope, Du Mocher's#8070	Pile, Du Rocher's	907U 1795	Seaweeds, calcareous	8710	Surgery, cerebral. Swil	Volcanoes, mud. 487
elon, essence of8451	Pile, Radiguet	0006	Secrets, theater #839	8, #8375	Sweetmeats, adulteration8451	
etal sorting machine	Plies, ison, in the Punjab.  Plinapple, essence.  Plipos iron, rust proof.  Pipos, vale, rust proof.  Pipos, water, wrought iron.  Respectively.  Planes, trans-Septunian  Planes, over fertilised.  Plants, how reproduced.  Plants, how reproduced.  Plants, how reproduced.  Plants, bow reproduced.  Plants, we reproduced.  Plants, bow reproduced.  Response to the reproduced by reproduced.  Response to the reproduced by	3058	Seed, cedron	8639	Swine plague8628	
etals, action of acids on8701	Pipes iron, rust proof 8	1430	Seed trade, the	8453	T	Wagon wheel, axleless
etals, action on acids	Pipes, water, wrought iron8	3732	Seismograph, Fouque's	8714	Manife banks	Warshin Collingwood #69
etals, impurities in #8616	Plague, swine	104U 1028	Sewage, disposal of	. #8069 #8650	Tanks, gas holder, large #8007	Washing negatives#86
etallic defenses8583	Planet, trans-Neptunian 8	3467	Sewage, fish injured by	8713	Tanite wheels #8586 Tanks, gas holder, large #8607 Tar pavement 8644	Watch hands, to make red
eter, power, Ashton's#8430	Plantations, draining for8	9645	Sewage pumps, Boston	. #8361	Tarantula, the 5596 Telegraph and Prof. Henry \$8733 Telegraph in China 8511 Telegraph line, self-induction 8542	Water, aeration of
eteorite, Santa Catharina8532	Plants, how fertilized8	614	Sewage, treatment	8705	Telegraph in China8511	Water, apparatus to raise*85
eteorites8442, 8467	Plants, how reproduced8	1485	Sewage works, Boston	#8350	Telegraph line, self-induction8542	Water cooler, mechanical was
eteorites, origin of #4483 eteors #4851 icro-biology, recent studies #4851 icro-biology, recent studies #4870 icro-crystals #870 icro-crystals #870 icro-cocci of malaris #482 icroscope, new #4832 icroscope writing #8591 idzu-Ame #8591 id	Plates photo, coating 38	842	Sewers, appar, to flosh	¥8519	Telegraphy, facsimile	Water main, lifting a#84
icro-biology, recent studies 8497	Plow, steam, the8	377	Sewers, ventilation	#8449	Telephony, improvement in	Water meter, Berthon #83
iero-erystals	Plum, essence of	451	School house, village	8333	Telephone apparatus, Edison's #8726	Water pipes, wrought iron87
icrometer threads	Pneumatic foundations 8	731	Science, practical achievement	8420	Telephone, Burnley's*8544	Water, portable, organisms of83
icroscope, new	Pneumatic tubes	562	Science, progress of	8533	Telephone, Burnley's. #8544 Telephone Circuits, induction. #8627 Telephone, Colson. #8479	Water purification
idzu-Atne	Polarized light	500	Shaft sinking	9808	Telephone, Colson.         *****77           Telephone, Eaton's.         ****8415           Telephone experiments.         ****415           Telephone, Graham's.         ****415           Telephone litigation.         ***363           Telephone, piston.         ****644           Telephone prices.         ****8545           Telephone receiver, theory of.         ***461           Telephone receiver, theory of.         ***461           Telephone relay. Farmer's         ***5545	Water sanitation
ilk, decomposition	Pole roads	635	Shafts and cranks #8716	6, #8719	Telephone experiments8434	Waterspouts, imitation#85
ine, gold, in Asia8582	Pompeii	532	Shafts, mine, sinking	#8567	Telephone, Graham's #8415	Waves, force of, utilization #85
ines, phosphate, Canada 8580 1	Porch, entrance	671	Shilling, Baron Paul	. #8737	Telephone, piston	Wax, grafting86
olecules and atoms	Porch, entrance	306	Ship Great Eastern	8695	Telephone, prices	Weighing machine automatic
onument, design for #8503	Power, compressed air. #8	475	Ship Irrawaddy.	¥8347	Telephone receiver, theory of 8461	Weights, atomic 87
onument, design for #8503 1	Power, electric transmission#8	384	Sharts, mine, sinking. Sheep. Shilling, Baron Paul. Ship Great Eastern. Ship, H. M., Camperdown. Ship Irawaddy. Ship Japanese. Naniwa. Ship, war, Collingwood. Ships, iron, magnetism.	. #8730	Telephone relay, Farmer's	Well, a courtvard.
onument to Hummel#8363   lotor, gas, Benier's #8553   l	Power Meter, Ashton's	430	Ships, iron, magnetism	→ 〒8795	Telephone transmitter, theory 8353,	Well-boring by steam #85
otor, gas, Lenoir's #8607	reseat card unstributer. #8  Power, compressed air. #8  Power, compressed air. #8  Power, Henry #8  Power, Henry #8  Power Meter, Ashton's. #8  Press, emulsion #8  Press, emulsion #8	643	Ships, magnetism of	*8526	Telpher line, Glynde#8354	Wagon wheel, axieless
otors, street railway 8458	Press for fabrics	600	Ships, torpedo, special	. # 8067 # sette	Temple of Solomon #8444	Weils, artesian, in Sierra Nevada 86
ounting medium, new	Press for fabrics #8 Press, printing, cheap #8 Presto slide carrier #8	508	Shoring	8498	Test-recording apparatus. #8584	Wells, Sir T. S #86
	Prison labor	385	Ships, Iron, magnetism Ships, magnetism of Ships, torpedo, special Shoring. Shoring. Shoring. Shoriug. Shogun, Spencer Shoulder, dislocations of. Sibley College lectures.	. #8522	Temple of Solomon #8444 Test-recording apparatus #8584 Theater, aquatic #8590 Theater electric lighting of #8416 Theater secrets #8390, #8375 Theater Vienna #8390, #849	Wheel, wagon, axioless #87
useum, Amsterdam, #8401	Proportion, theory of	119	Sibley College lectures	8001 .#8715	Theater secrets	Wheels emery*85
nd volcanoes	Propulsion, marine#8	719			Theater, Vienna#8462	Wheels reaction*84
yopia8705	Protoplasm living and dood	334	Sieveking, Dr. E. H	#8514	Theaters, mechanism	Wine, coloring matter of
N I	repuision, marine "6. Prosperity, three sources of 8 Protoplasm, living and dead. 8 Protoplasm, living and dead. 8 Pulpit Terrace. 88 Pump for liquid lead. 8 Pumping air, improved 88 Pumping engines, Boston. 88	624	Sight for the blind	8696	Thermo-chemistry, new law	Wine, rice, Japanese
aval Architects' Institution8730	Pulpit Terrace	711	Signating apparatus, Gavoy's	8466	Thermometers, testing. 888	Wood, agatized, Arizona
avigation, submarine8623	umps, air, improved #8	685	Silk, dyed, tests of Silk loom, Russian	. 4:8588	Thief-trap, new	Wood for paper pulp
egatives, isochromatic8561	Pumping engines, Boston*8	361	Silk loom, Russian Silurus, electric Siphons, intermittent	. #8534	Timber decay	Wood, John
		614	Slide carrier, photo	#850e	Timber, growth, seasoning, etc.,8539	Woodpecker, California. 84 Woods, resinous. durability. 86 Wool tested with acid. 84
gatives, washing	Pyridine	406	Siphons, intermittent Slide carrier, photo Slipway, hydraulic Smoke and gas, to avoid Soaps, toilet, classification Soaps, toilet, manufacture888	#8521	Timber, measuring	Woods, resinous, durability80
ew York public works8500		18	Smoke and gas, to avoid	8406	Tin. 8511 Tin, deposition on fabrics 8561	
ickel, separation	4	1 2	Soaps, toilet, manufacture . 839	0, 8397.	Tin, reaction of	Workshop for amateurs
ekel, separation	Quadrant, field, Costiesco's#8			8408		Worms, face
theven wheel, it	uarantine	540 8	Soaps, transparent	8797	Toilet soap. Sisa Sar suce	Worms, face. #80 Works, public, New York. 85 Writing, microscopic. 83
	Juartz and its varieties 8	437	Societies, chemical	8722	Toilet soaps, classificaton8308	Writing, microscopic85
trogen fixation of		18	Society, Royal, soiree	8701	Torpedo boat, aboard a	Y
trogen fixation of	pro-	18	Soil black of Manitoba	8942	Torpedo boat, Goubet's#8344	Yarn, machine for dyeing ****
trogen fixation of	R	1 5		30.024.44		
ones, profiles of	Pabbitta ana teananlanting	900	Soil, black, of Manitoba Solomon's Temple	. WOLLE	Torpedo boats8535	Yeast apparatus#84
oses, profiles of	Pabbitta ana teananlanting	900	Somersault turners	#8370	Tin foil.	Yeast apparatus*88 Yellowstone Park*87
oses, profiles of	Pabbitta ana teananlanting	900	Sound and colorSound, theory of, new	#8370 #8571 8546	Torpedo boats         8835           Torpedo catcher         8413           Torpedo, electric         #8534           Torpedo ships, special         #8567	Yeast apparatus*84 Yeliowstone Park*871
oses, profiles of	Pabbitta ana teananlanting	390 576 692 644 346	Sound and color Sound, theory of, new	#8370 #8571 8546 8443	Torpedo boats         8836           Torpedo catcher         8413           Torpedo, electric         #8534           Torpedo ships, special         #8567           Torpedo, Sims         8377	Yeast apparatus. #842 Yeilowstone Park. #871
one-nature, one-mean 3773 oses, profiles of	labbit's eye, transplanting. 3 tabbit's heart in motion. 48 tables, Pasteur's treatment. 48 kack, plate, photo. 48 tail fastening. Davies'. 48	390 576 602 644 346	Sound and color Sound, theory of, new	#8370 #8571 . 8546 . 8443 . #8563 . 8445	Torpedo boats         835           Torpedo catcher         8413           Torpedo, electric         #8584           Torpedo ships, special         #8567           Torpedo, Sims         8377           Torpedo, Whitehead         #8681           Torpedo, use of in way         \$800	Yeast apparatus. #842 Yellowstone Park. #871 Z Zamia furfuracea. #992 Zine and codming. separation. 848
one-nature, one-mean 3773 oses, profiles of	labbit's eye, transplanting. 3 tabbit's heart in motion. 48 tables, Pasteur's treatment. 48 kack, plate, photo. 48 tail fastening. Davies'. 48	390 576 602 644 346	Somersault turners. Sound and color. Sound, theory of, new. Space, temperature of. Spark, electric, imitation. Spectra, absorption, variations.	8546 8443 .#8563 8545	Torpedo ships, special	Yeast apparatus. #842 Yellowstone Park. #871 Z Zamia furfuracea. #992 Zine and codming. separation. 848
one-nature, one-mean 3773 oses, profiles of	Pabbitta ana teananlanting	390 576 602 644 346	Somersault turners. Sound and color. Sound, theory of, new. Space, temperature of. Spark, electric, imitation. Spectra, absorption, variations. Spectroscopy, induction.	8546 8443 .#8563 8545 8694	Torpedo ships, special. #8567 Torpedo, Sims. 8877 Torpedo, Whitehead. #8681 Torpedoes, use of in war. #8554, #8567	Yeast apparatus. #848 Yellowstone Park. #871  Z  Zamia furfuracea. #802 Zinc and cadmium, separation. 848 Zinc, estimation of .808 Zinc hypothorite .808